

STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION

MICHAEL F. EASLEY
GOVERNOR

LYNDO TIPPETT SECRETARY

December 10, 2004

U.S. Army Corps of Engineers Raleigh Field Office 6508 Falls of the Neuse Road Suite 120 Raleigh, NC 27615

Attention:

Mr. Eric Alsmeyer,

NCDOT Coordinator

Dear Sir:

SUBJECT: NW 23 Permit Modification Request for the replacement of Bridge

No. 122 over Sandy Creek and Bridge No. 217 over a tributary to Sandy Creek on SR 1116 in Durham County, Federal Project No. BRSTP-1116 (4), State Project No. 8.2353001, Division 5, T.I.P. No. B-

3450.

Reference: USACE 404 Nationwide 23; Permit Action ID No. 20021134

issued May 17, 2004.

Dear Sir:

The North Carolina Department of Transportation (NCDOT) proposes to modify the construction for the above-mentioned project to provide for curb and gutter. The purpose of this letter is to request a modification to the Department of the Army Nationwide 23 Permit. The NCDOT is asking for an additional 0.03 acres of permanent wetland impacts at Site 1. The revised permit drawings (sheets 3, 4, and 8 of 8) and revised plan sheets (2, 2 (A, B, C), 4, 6, and 7) are attached.

The NCDOT proposes to replace Bridge No. 217 over an unnamed tributary to Sandy Creek and Bridge No. 122 over Sandy Creek. Bridge Nos. 217 (Site 1) and 122 (Site 2) will be replaced on existing alignments. Bridge No. 217 will be 90 feet long and will consist of two spans. Bridge No. 122 will be 110 feet long and will consist of three spans. Construction will be via the top down method eliminating temporary construction impacts. During construction traffic will be directed to an onsite bridge detour upstream.

The construction of Bridge No. 217 will require upgrades to the shoulder sections adjacent to the bridge for curb and gutter. The curb and gutter will require an 8-foot shoulder behind the curb for a sidewalk These additions will impact 0.03 acres of wetland.

Summary of Changes

<u>Background:</u> This project is located in the Cape Fear River Basin. The existing permit is for 0.14 acres of permanent wetland impacts, which consists of 0.03 acres of fill and 0.11 acres of mechanized clearing adjacent to Bridge No. 217 over the unnamed tributary.

FAX: 919-715-1501

WEBSITE: WWW.NCDOT.ORG

TELEPHONE: 919-715-1500

LOCATION: 2728 CAPITAL BLVD PLB SUITE 168 RALEIGH NC 27604 <u>Changes</u>: Addition of curb and gutter to the project area has increased the permanent wetland impacts by 0.03 acres to 0.17 acres, which consists of 0.05 acres of fill and 0.12 acres of mechanized clearing. Revisions were made to the permit and roadway drawings in order to be consistent with new plans.

MITIGATION

The NCDOT did not propose compensatory mitigation for the original 0.14 acres of wetland impacts, which was authorized under the previous NW 23 permit. However the additional wetland impacts of 0.03 acres of a jurisdictional wetland will be offset by compensatory mitigation provided by the EEP program (see attached EEP confirmation letter).

REGULATORY APPROVALS

<u>Section 404 Permit</u>: The NCDOT requests that the referenced 404 Nationwide 23 be modified to reflect the revisions outlined in this letter.

<u>Section 401 Permit</u>: We anticipate 401 General Water Quality Certification (WQC) 3403 still applies to this project. The NCDOT will adhere to all general conditions of this WQC. Therefore, written concurrence from the NCDWQ is not required. In accordance with 15A NCAC 2H 0.0501(a) and 15A NCAC 2B 0.200 we are providing two copies of this application to the North Carolina Department of Environment and Natural Resources, Division of Water Quality, as notification.

A copy of this permit application will be posted on the NCDOT website at: http://www.ncdot.org/planning/pe/naturalunit/Permit.html. If you have any questions or need additional information please call Ms. Deanna Riffey at (919) 715-1409.

Sincerely

Gregory J Thorpe, Ph.D.

Environmental Management Director, PDEA

Cc:

w/attachment

Mr. John Hennessy, Division of Water Quality (2 copies)

Mr. Travis Wilson, NCWRC

Mr. Gary Jordan, USFWS

Dr. David Chang, P.E., Hydraulics

Mr. Greg Perfetti, P.E., Structure Design

Mr. Jon Nance, P.E. Division Engineer

Mr. Chris Murray, DEO

w/o attachment

Mr. Jay Bennett, P.E., Roadway Design

Mr. Omar Sultan, Programming and TIP

Mr. Art McMillan, P.E., Highway Design

Mr. Mark Staley, Roadside Environmental

Ms. Stacy Baldwin, P.E., PDEA

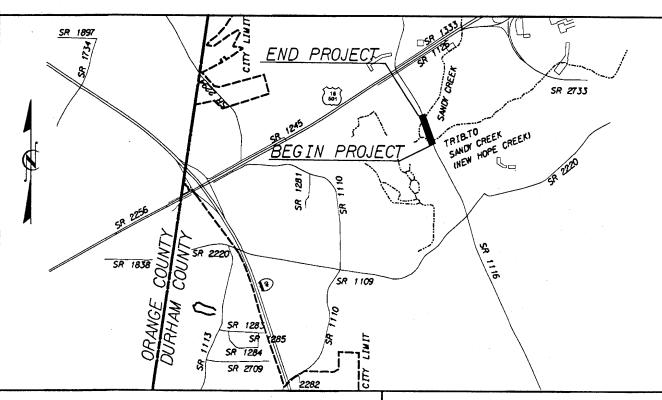
Mr. David Franklin, USACE, Wilmington

Ms. Beth Harmon, EEP

Mr. Carl Goode, PE

NORTH CAROLINA

SITE



VICINITY MAPS

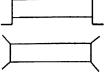
NCDOT

DIVISION OF HIGHWAYS
DURHAM COUNTY
PROJECT: 8.2353001 (B-3450)
BRIDGE NO. 122 & 217
OVER SANDY CREEK
TRIB. TO SANDY CREEK
ON SR 2220

SHEET 1 OF 8

WETLAND WLB-WETLAND BOUNDARY WETLAND DENOTES FILL IN WETLAND DENOTES FILL IN SURFACE WATER DENOTES FILL IN SURFACE WATER (POND) DENOTES TEMPORARY FILL IN WETLAND DENOTES EXCAVATION IN WETLAND DENOTES TEMPORARY FILL IN SURFACE WATER DENOTES MECHANIZED CLEARING → FLOW DIRECTION - TOP OF BANK WE EDGE OF WATER \underline{C}_{--} PROP.LIMIT OF CUT ---F--- PROP.LIMIT OF FILL - PROP.RIGHT OF WAY ---NG--- NATURAL GROUND ---PL-- PROPERTY LINE -TDE --- TEMP. DRAINAGE EASEMENT -- PDE --- PERMANENT DRAINAGE EASEMENT -- EAB-- EXIST. ENDANGERED ANIMAL BOUNDARY -- EPB-- EXIST. ENDANGERED PLANT BOUNDARY ----- WATER SURFACE





PROPOSED BRIDGE

PROPOSED BOX CULVERT

PROPOSED PIPE CULVERT

(DASHED LINES DENOTE EXISTNG STRUCTURES)

12"-48" PIPES 54" PIPES & ABOVE

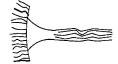
63

SINGLE TREE

-ىنى*-*ىنى-ىنى-

WOODS LINE

DRAINAGE INLET



ROOTWAD

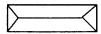
RIP RAP



ADJACENT PROPERTY OWNER OR PARCEL NUMBER IF AVAILABLE



PREFORMED SCOUR HOLE WITH LEVEL SPREADER (PSH)



LEVEL SPREADER (LS)



GRASS SWALE

LIVE STAKES

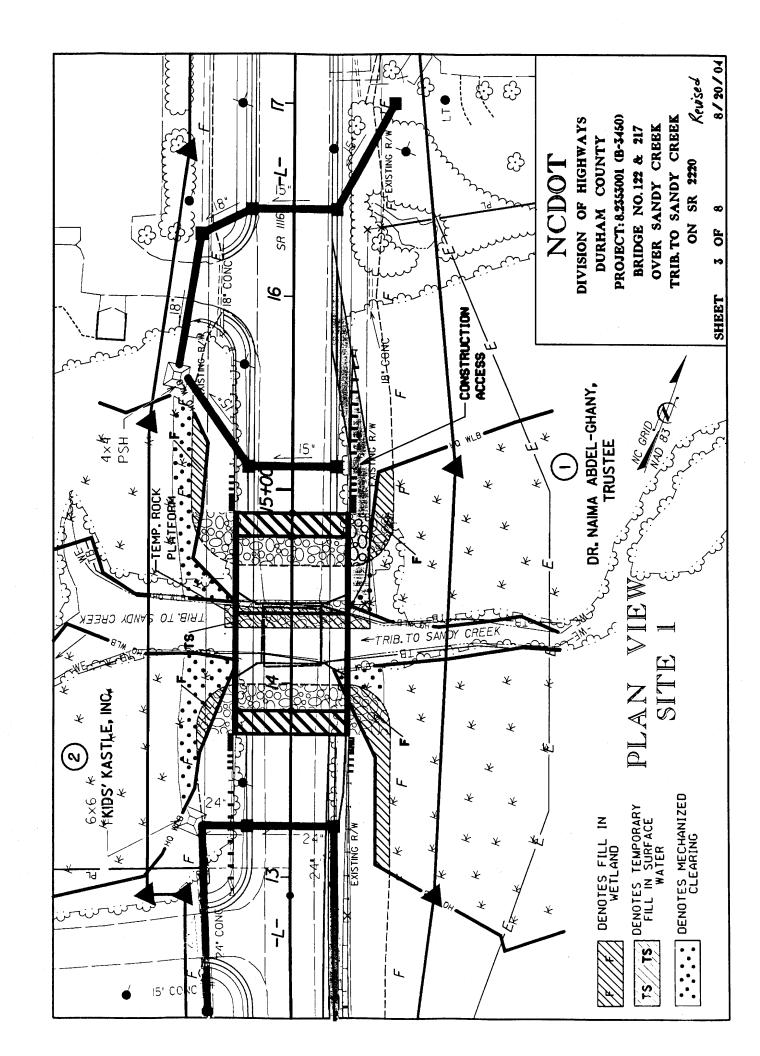


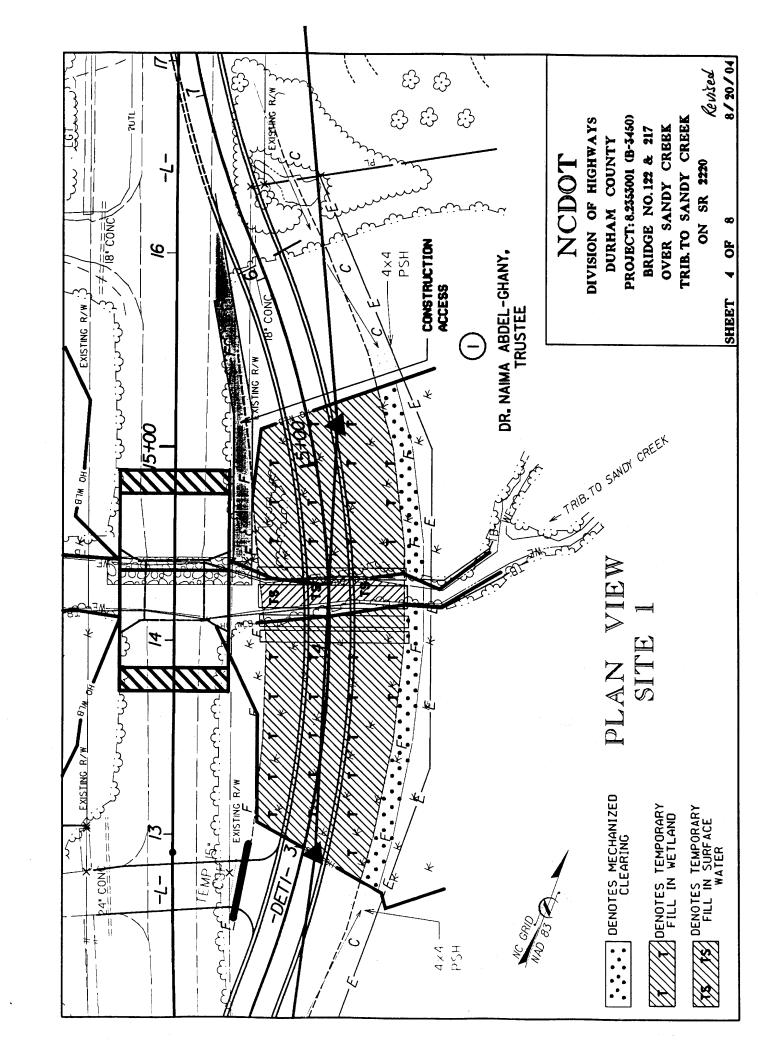
BOULDER

CORE FIBER ROLLS

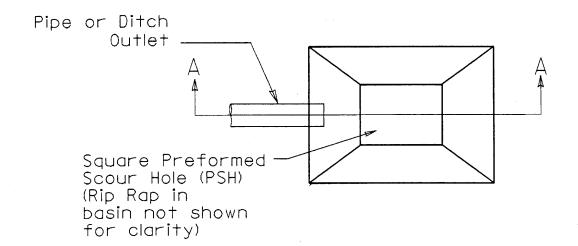
N. C. DEPT. OF TRANSPORTATION DIVISION OF HIGHWAYS DURHAM COUNTY PROJECT: 8.2353001 (B-3450) BRIDGE NO. 122 & 217 OVER SANDY CREEK TRIB. TO SANDY CREEK ON SR 2220

SHEET 2 OF 8 / 20 / 04

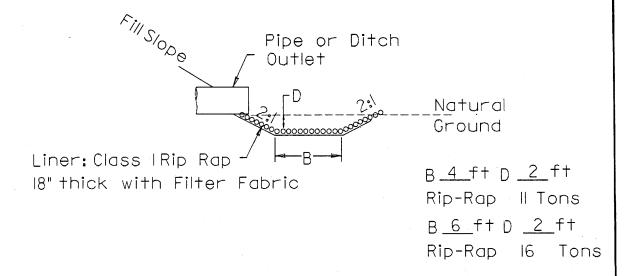




PLAN VIEW



SECTION A-A



PERFORMED SCOUR HOLE (PSH)

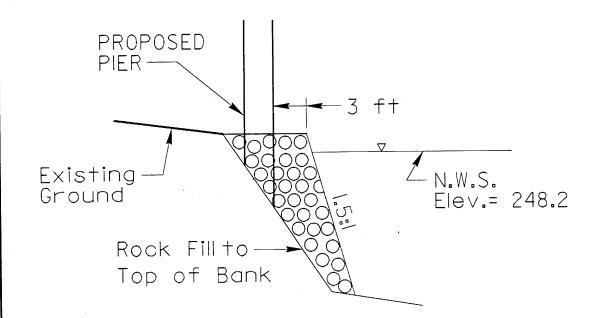
(Not to scale)

NCDOT

DIVISION OF HIGHWAYS
DURHAM COUNTY
PROJECT: 8.2353001 (B-3450)
BRIDGE NO. 122 & 217
OVER SANDY CREEK
TRIB. TO SANDY CREEK
ON SR 2220

SHEET 5 OF 8

TEMPORARY ROCK PLATFORM (Not to Scale)



NCDOT

DIVISION OF HIGHWAYS
DURHAM COUNTY
PROJECT: 8.2353001 (B-3450)
BRIDGE NO. 122 & 217
OVER SANDY CREEK
TRIB. TO SANDY CREEK
ON SR 2220

SHEET 6 OF 8

PROPERTY OWNERS

NAMES AND ADDRESSES

PARCEL NO.

NAMES

ADDRESSES

| DB 2640 PG 765 | DR. NAIMA ABDEL-GHANY, | I717 COUNTRY CLUB DRIVE LYNN HAVEN, FL 32444-1983

| DB 2314 PG 485 | KIDS' KASTLE, INC. | 37500 EDEN CHAPEL HILL, NC 27514

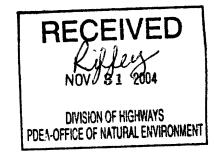
NCDOT

DIVISION OF HIGHWAYS
DURHAM COUNTY
PROJECT: 8.2353001 (B-3450)
BRIDGE NO. 122 & 217
OVER SANDY CREEK
TRIB. TO SANDY CREEK
ON SR 2220

SHEET 7 OF 8

Fill In Temp. Fill Wetlands (ac)
0.045
0.338
0.045 0.338





Mr. Gregory J. Thorpe, Ph.D. Environmental Management Director Project Development and Environmental Analysis Branch North Carolina Department of Transportation 1548 Mail Service Center Raleigh, NC 27699-1548

Dear Dr. Thorpe:

3:

Subject:

EEP Mitigation Acceptance Letter:

B-3450, Bridge 122 over Sandy Creek and Bridge 217 over a Tributary to Sandy Creek, Durham County

The purpose of this letter is to notify you that the Ecosystem Enhancement Program (EEP) will provide wetland mitigation for the subject project. Based on the information supplied by you in a letter dated November 22, 2004, the impacts are located in CU 03030002 of the Cape Fear River Basin in the Central Piedmont Eco-Region, and are as follows:

Riverine Wetland: 0.03 acre

As stated in your letter, the subject project is listed in Exhibit 2 of the Memorandum of Agreement among the North Carolina Department of Environment and Natural Resources, the North Carolina Department of Transportation, and the U. S. Army Corps of Engineers, Wilmington District dated July 22, 2003. The wetland mitigation for the subject project will be provided in accordance with this agreement.

If you have any questions or need additional information, please contact Ms. Beth Harmon at 919-715-1929.

> Sincerely, Millian D. Shuro

William D. Gilmore, P.E.

Transition Manager

cc:

Eric Alsmeyer, USACE-Raleigh

John Hennessy, Division of Water Quality, Wetlands/401 Unit

File: B-3450



November 30, 2004

Mr. Eric Alsmeyer US Army Corps of Engineers Raleigh Regulatory Field Office 6508 Falls of the Neuse Road, Suite 120 Raleigh, North Carolina 27615

Dear Mr. Alsmeyer:

Subject:

EEP Mitigation Acceptance Letter:

B-3450, Bridge 122 over Sandy Creek and Bridge 217 over a tributary to Sandy Creek on SR 1116, Durham County; Cape Fear River Basin (Cataloging Unit 03030002); Central Piedmont Eco-Region

The purpose of this letter is to notify you that the Ecosystem Enhancement Program (EEP) will provide 0.3 acres of riverine wetland preservation as compensatory mitigation at a 10:1 ratio for the 0.03-acre of unavoidable riverine wetland impacts of the subject project. The preservation site that will be debited for this mitigation is:

Allen Site (Wake County)

0.30 acres

The subject TIP project is listed in Exhibit 2 of the Memorandum of Agreement among the North Carolina Department of Environment and Natural Resources, the North Carolina Department of Transportation, and the U. S. Army Corps of Engineers, Wilmington District dated July 22, 2003. The compensatory mitigation for the project will be provided in accordance with Section IX, EEP Transition Period, of the Agreement.

If you have any questions or need additional information, please contact Ms. Beth Harmon at (919) 715-1929.

Sincerely,

William D. Gilmore, P.E.

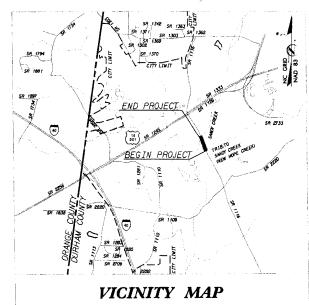
Transition Manager

cc: Phil Harris, Office of Natural Environment, NCDOT

John Hennessy, Division of Water Quality, Wetlands/401 Unit

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File: B-3450



STATE OF NORTH CAROLINA DIVISION OF HIGHWAYS

DURHAM COUNTY

LOCATION: BRIDGE NO. 217 OVER TRIBUTARY OF SANDY CREEK

AND BRIDGE NO. 122 OVER SANDY CREEK

AND APPROACHES ON SR 1116

TYPE OF WORK: GRADING, DRAINAGE, PAVING, GUARDRAIL, AND STRUCTURES



N.C.

STATE PROJ. NO.

33070.1.1

33070.2.2 33070.3.1

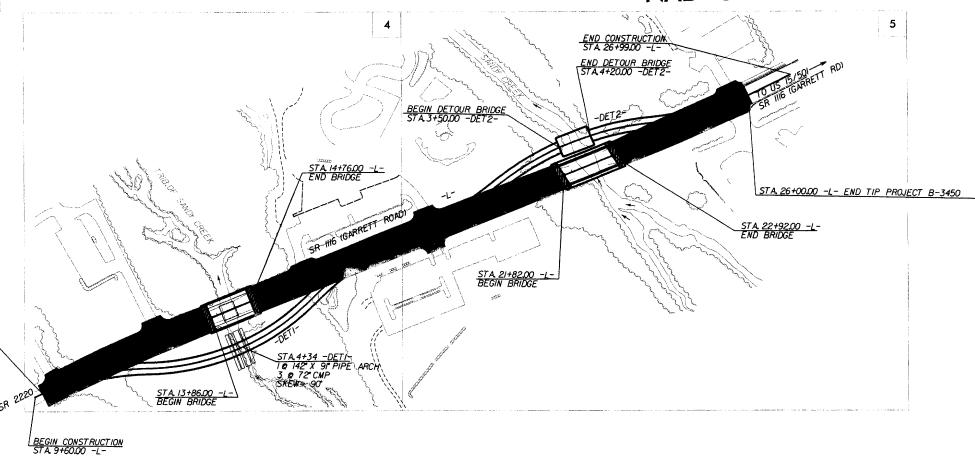
B-3450

BRSTP-1116 (4) BRSTP-1116 (4)

BRSTP-1116 (6)

RW, UTILITIES

CONST.



NCDOT CONTACT: MS. CATHY S. HOUSER, PE, PROJECT ENGINEER

STA 10+00.00 -L- BEGIN TIP PROJECT B-3450

GRAPHIC SCALES **PLANS** PROFILE (HORIZONTAL) PROFILE (VERTICAL)

DESIGN DATA

ADT 2003 = 11,800 VPDADT 2023 = 18,900 VPD

DHV = 10%

D = 55%

V = 45 MPH* TTST 3% + DUAL 4%

PROJECT LENGTH

LENGTH ROADWAY TIP PROJECT B-3450 = 0.265 MILE LENGTH STRUCTURE TIP PROJECT B-3450 = 0.038 MILE TOTAL LENGTH OF TIP PROJECT B-3450 = 0.303 MILE

Prepared for NCDOT In the Office of: 2002 STANDARD SPECIFICATIONS

RIGHT OF WAY DATE: MICHELLE R. BRAME, P.E MARCH 21, 2003

LETTING DATE: **APRIL 19, 2005**

JENNIFER M. SPOHN PROIECT DESIGN ENGINEER

HYDRAULICS ENGINEER

ROADWAY DESIGN

DIVISION OF HIGHWAYS STATE OF NORTH CAROLINA

STATE DESIGN ENGINEER DEPARTMENT OF TRANSPORTATION FEDERAL HIGHWAY ADMINISTRATION

ROJECT REFERENCE NO. SHEET NO.

*S.U.E = SUBSURFACE UTILITY ENGINEER

STATE OF NORTH CAROLINA DIVISION OF HIGHWAYS

ROADS & RELATED ITEMS

MINOR

Head & End Wall

CONVENTIONAL SYMBOLS

Recorded Water Line

Sanitary Sewer

Recorded Gas Line

Recorded Power Line

Unknown Utility (S.U.E.*)

Recorded Television Cable

Recorded Fiber Optics Cable

Exist. Water Meter

End of Information

State Line

City Line

County Line

Township Line

Reservation Line

Property Line Symbol

Property Line

Exist. Iron Pin

Property Corner
Property Monument

Property Number

Existing Wetland Boundaries

High Quality Wetland Boundary

Low Quality Wetland Boundaries

Proposed Wetland Boundaries

Medium Quality Wetland Boundaries

Existing Endangered Animal Boundaries

Existing Endangered Plant Boundaries

Parcel Number

Fence Line

U/G Test Hole (S.U.E.*)

Storm Sewer

Designated Water Line (S.U.E.*)

Designated Gas Line (S.U.E.*)

Designated Power Line (S.U.E.*)
Recorded Telephone Cable

Designated Telephone Cable (S.U.E.*)
Recorded U/G Telephone Conduit

Designated Television Cable (S.U.E.*)

Designated Fiber Optics Cable (S.U.E.*)

Abandoned According to U/G Record

BOUNDARIES & PROPERTIES

 \odot

ATTUR

(123)

(6)

----- HO WLB -----

— — MG WLB —

----LO WLB -----

Designated U/G Telephone Conduit (S.U.E.*)

Recorded Sanitary Sewer Force Main

Designated Sanitary Sewer Force Main(S.U.E.*

BUILDINGS & OTHER CULTURE Buildings Foundations Area Outline Gate Gas Pump Vent or U/G Tank Cap Church School Cemetery Dam Small Mine Swimming Pool **TOPOGRAPHY** Loose Surface Hard Surface Change in Road Surface Curb Right of Way Symbol R/W **Guard Post** Paved Walk Bridge **Box Culvert or Tunnel** Ferry Culvert Footbridge Trail, Footpath Light House $\stackrel{\triangle}{X}$ **VEGETATION** Single Tree Single Shrub Hedge Woods Line Orchard 송승승승승승 Vineyard VINEYARD **RAILROADS** Standard Gauge **RR Signal Milepost** ⊕ MILEPOST 35 Switch

Edge of Pavement	
Curb	
Prop. Slope Stakes Cut	
Prop. Slope Stakes Fill	
Prop. Woven Wire Fence	
Prop. Chain Link Fence	
Prop. Barbed Wire Fence	
Prop. Wheelchair Ramp	
Curb Cut for Future Wheelchair Ramp	
Exist. Guardrail	
Prop. Guardrail	I
Equality Symbol	
Pavement Removal	. 🗵
RIGHT OF WAY	
Baseline Control Point	
Existing Right of Way Marker	
Exist. Right of Way Line w/Marker	
Prop. Right of Way Line with Proposed	
RW Marker (Iron Pin & Cap)	
Prop. Right of Way Line with Proposed	
(Concrete or Granite) RW Marker	
Exist. Control of Access Line	
Prop. Control of Access Line	
Fidal Farmont Co.	
Prop. Temp. Construction Easement Line	
Prop. Temp. Drainage Easement Line	
Prop. Perm. Drainage Easement Line	
HYDROLOGY	
Stream or Body of Water	*****
River Basin Buffer	
Flow Arrow	-
Disappearing Stream	٠.
Spring	
Swamp Marsh	
Shoreline	
Falls, Rapids	
Prop Lateral, Tail, Head Ditches	\geq

STRUCTURES

GONC WW

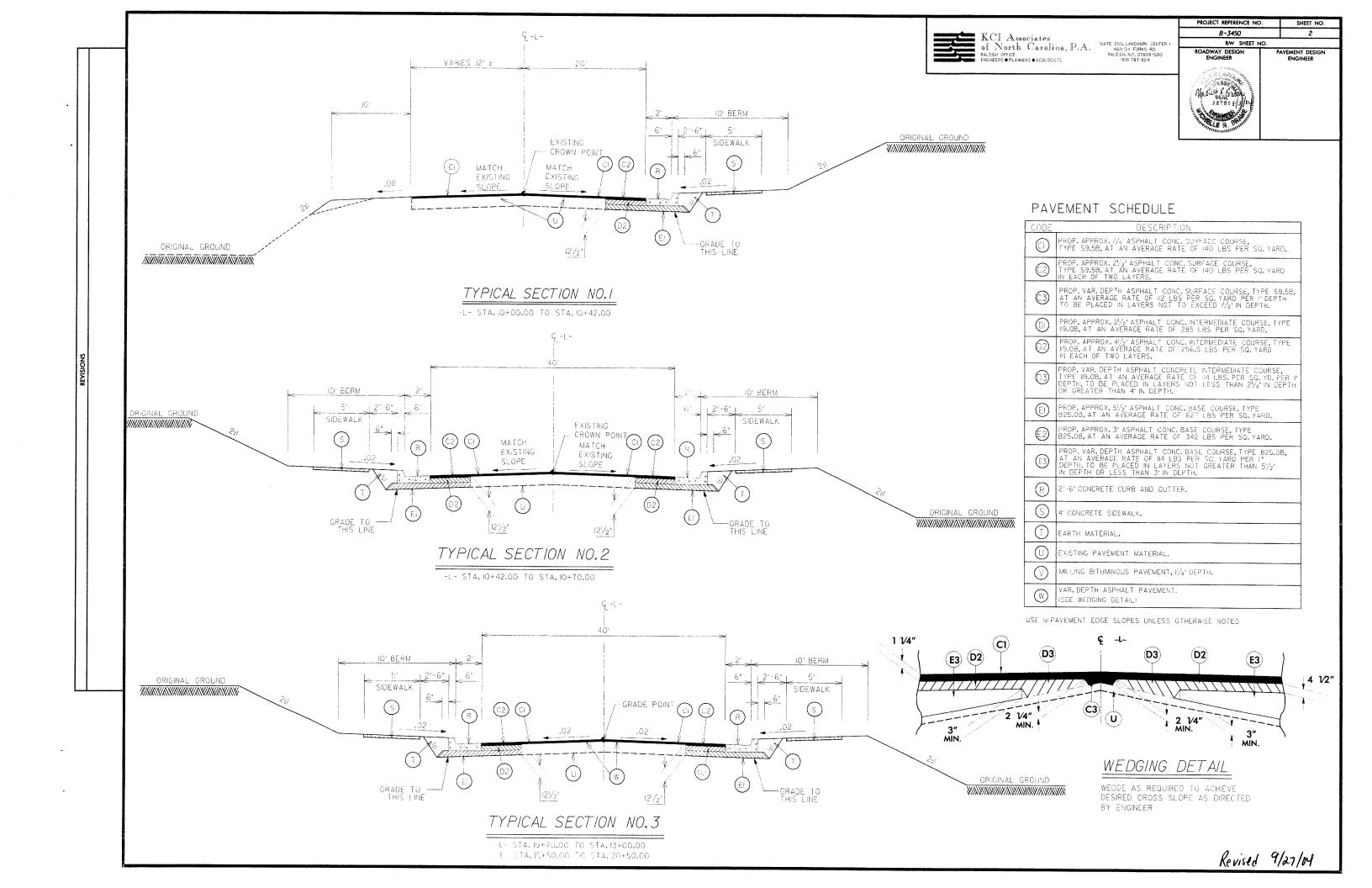
Bridge, Tunnel, or Box Culvert

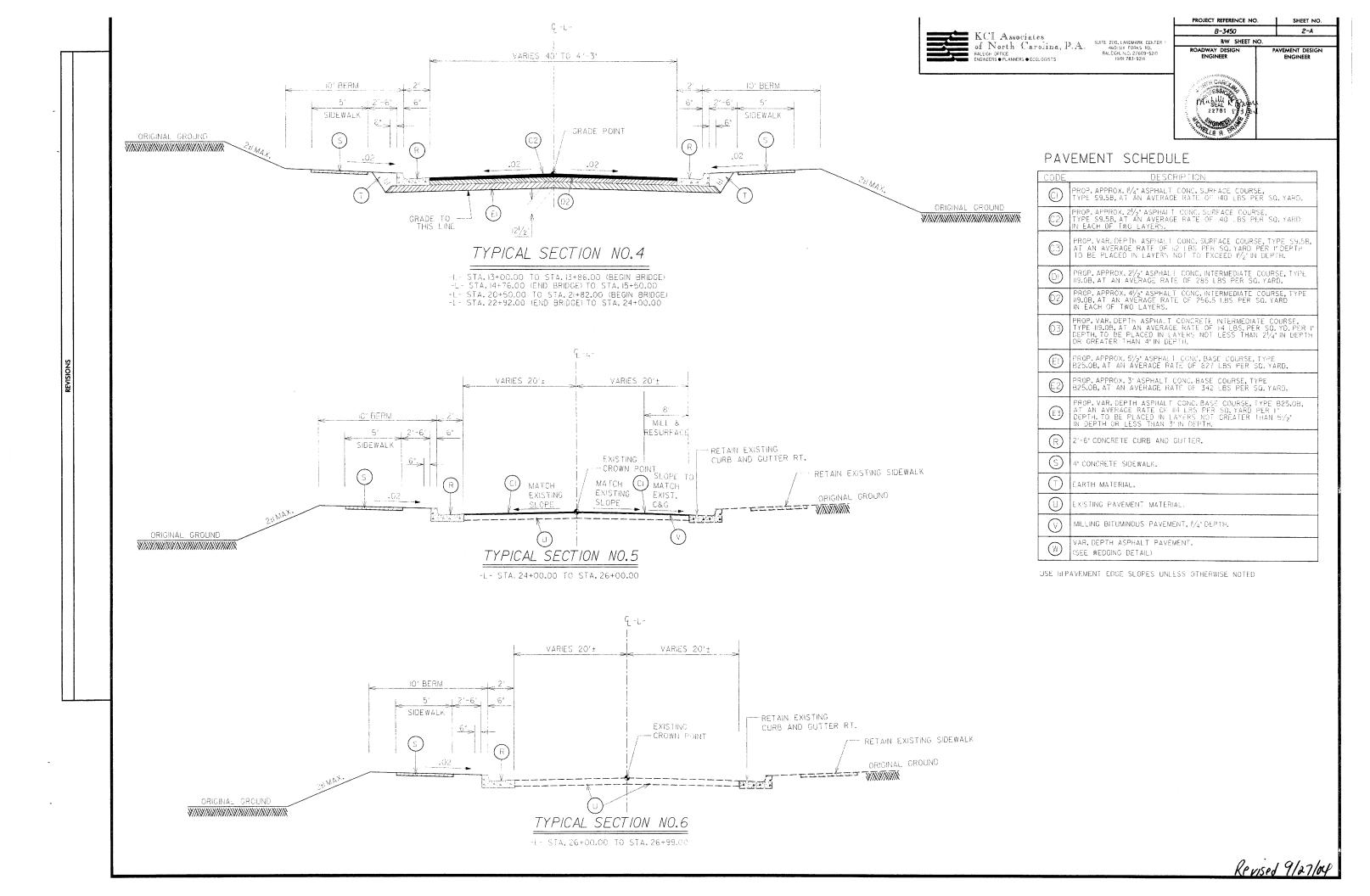
Bridge Wing Wall, Head Wall

and End Wall

MAJOR

<u>c</u>	Dina Culumt	> COME HY
F	Pipe Culvert	6e
	Footbridge	>
0-0-	Drainage Boxes	1
	Paved Ditch Gutter	
\Diamond $-\Diamond$ $-$		
(WCR)	UTILITIES	
(CFB)	UILIIES	
	Exist. Pole	•
	Exist. Power Pole	•
•	Prop. Power Pole	ò
~~~~~	Exist. Telephone Pole	•
<b>XXXX</b>	Prop. Telephone Pole	-0-
	Exist. Joint Use Pole	<b>+</b>
<b>♦</b>	Prop. Joint Use Pole	-6-
Δ	Telephone Pedestal	
<u>A</u>	U/G Telephone Cable Hand Hold	H
	Cable TV Pedestal	٥
	U/G TV Cable Hand Hold	HH
	U/G Power Cable Hand Hold	H
	Hydrant	•
	Satellite Dish	$\varnothing$
	Exist. Water Valve	8
	Sewer Clean Out	$\oplus$
W	Power Manhole	®
E	Telephone Booth	3
E	Cellular Telephone Tower Water Manhole	, <b></b> ,
TDE		(1)
PDE	Light Pole H–Frame Pole	¤
	Power Line Tower	
	Pole with Base	$\boxtimes$
COMMAND COMMAND CO. 1 - Addresses	C V I	
BZ ·	Gas Neter	$\Diamond$
>	Telephone Manhole	<b>\$</b>
	Power Transformer	(1)
	Sanitary Sewer Manhole	<b>₽</b>
*	Storm Sewer Manhole	(4)
	Tank; Water, Gas, Oil	(S)
	Water Tank With Legs	$\simeq$
$\rightarrow \rightarrow$	Traffic Signal Junction Box	
FLOW	Fiber Optic Splice Box	(S) (F)
	Television or Radio Tower	_
	Utility Power Line Connects to Traffic	$\otimes$
	Signal Lines Cut Into the Pavement	— тs
CONC		13
/		





SUITE 200, LANDMARK CENTER I 460I SIX FORKS RD. RALEIGH, N.C. 27609-5210 (919) 783-9214

PROJECT REFERENCE NO. SHEET NO.

B-3450

RW SHEET NO.

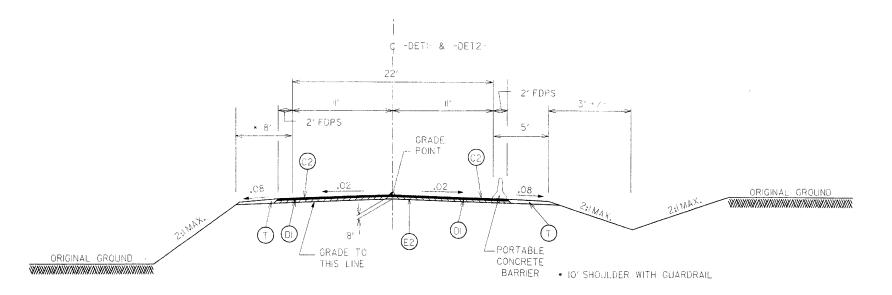
ROADWAY DESIGN
ENGINEER

PAVEMENT DESIGN
ENGINEER

CARO

ESSAL

22761 83 30 30 31



### TYPICAL SECTION NO.7

-DETI- STA. I+12.19 TO STA. 6+84.08 -DET2- STA. I+48.07 TO STA. 3+50.00 (BEGIN BRIDGE) -DET2- STA. 4+20.00 (END BRIDGE) TO STA. 5+86.05

# \$7'-5" 5'-6* \$12'-21/2* \$14' \$12' \$14' \$12' \$14' \$12' \$14' \$12' \$14' \$12' \$14' \$15' \$15'-6* \$15'-6* \$15'-6* \$15'-6* \$15'-6* \$15'-6* \$15'-6* \$15'-6* \$15'-6* \$15'-6* \$15'-6* \$15'-6* \$15'-6* \$15'-6* \$15'-6* \$15'-6* \$15'-6* \$15'-6* \$15'-6* \$15'-6* \$15'-6* \$15'-6* \$15'-6* \$15'-6* \$15'-6* \$15'-6* \$15'-6* \$15'-6* \$15'-6* \$15'-6* \$15'-6* \$15'-6* \$15'-6* \$15'-6* \$15'-6* \$15'-6* \$15'-6* \$15'-6* \$15'-6* \$15'-6* \$15'-6* \$15'-6* \$15'-6* \$15'-6* \$15'-6* \$15'-6* \$15'-6* \$15'-6* \$15'-6* \$15'-6* \$15'-6* \$15'-6* \$15'-6* \$15'-6* \$15'-6* \$15'-6* \$15'-6* \$15'-6* \$15'-6* \$15'-6* \$15'-6* \$15'-6* \$15'-6* \$15'-6* \$15'-6* \$15'-6* \$15'-6* \$15'-6* \$15'-6* \$15'-6* \$15'-6* \$15'-6* \$15'-6* \$15'-6* \$15'-6* \$15'-6* \$15'-6* \$15'-6* \$15'-6* \$15'-6* \$15'-6* \$15'-6* \$15'-6* \$15'-6* \$15'-6* \$15'-6* \$15'-6* \$15'-6* \$15'-6* \$15'-6* \$15'-6* \$15'-6* \$15'-6* \$15'-6* \$15'-6* \$15'-6* \$15'-6* \$15'-6* \$15'-6* \$15'-6* \$15'-6* \$15'-6* \$15'-6* \$15'-6* \$15'-6* \$15'-6* \$15'-6* \$15'-6* \$15'-6* \$15'-6* \$15'-6* \$15'-6* \$15'-6* \$15'-6* \$15'-6* \$15'-6* \$15'-6* \$15'-6* \$15'-6* \$15'-6* \$15'-6* \$15'-6* \$15'-6* \$15'-6* \$15'-6* \$15'-6* \$15'-6* \$15'-6* \$15'-6* \$15'-6* \$15'-6* \$15'-6* \$15'-6* \$15'-6* \$15'-6* \$15'-6* \$15'-6* \$15'-6* \$15'-6* \$15'-6* \$15'-6* \$15'-6* \$15'-6* \$15'-6* \$15'-6* \$15'-6* \$15'-6* \$15'-6* \$15'-6* \$15'-6* \$15'-6* \$15'-6* \$15'-6* \$15'-6* \$15'-6* \$15'-6* \$15'-6* \$15'-6* \$15'-6* \$15'-6* \$15'-6* \$15'-6* \$15'-6* \$15'-6* \$15'-6* \$15'-6* \$15'-6* \$15'-6* \$15'-6* \$15'-6* \$15'-6* \$15'-6* \$15'-6* \$15'-6* \$15'-6* \$15'-6* \$15'-6* \$15'-6* \$15'-6* \$15'-6* \$15'-6* \$15'-6* \$15'-6* \$15'-6* \$15'-6* \$15'-6* \$15'-6* \$15'-6* \$15'-6* \$15'-6* \$15'-6* \$15'-6* \$15'-6* \$15'-6* \$15'-6* \$15'-6* \$15'-6* \$15'-6* \$15'-6* \$15'-6* \$15'-6* \$15'-6* \$15'-6* \$15'-6* \$15'-6* \$15'-6* \$15'-6* \$15'-6* \$15'-6* \$15'-6* \$15'-6* \$15'-6* \$15'-6* \$15'-6* \$15'-6* \$15'-6* \$15

### <u>TYPICAL SECTION NO.8</u> -L- STA. 13+86.00 TO STA. 14+76,00

TYPICAL SECTION NO.9
-L- STA. 21+82.00 TO STA. 22+92.00

### PAVEMENT SCHEDULE DESCRIPTION PROP. APPROX. 11/4" ASPHALT CONC. SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 140 LBS PER SQ. YARD. PROP.APPROX.2½"ASPHALT CONC.SURFACE COURSE, Type S9.5B,at an average rate of 140 LBS per sc.yard n each of two layers. PROP. VAR. DEPTH ASPHALT CONC. SURFACE COURSE, TYPE \$9.58, AT AN AVERAGE RATE OF 1/2 LBS PER SQ. YARD PER 1" DEPTH TO BE PLACED IN LAYERS NOT TO EXCEED 1/2" IN DEPTH. PROP.APPROX.2¹/₂' ASPHALT CONC.INTERMEDIATE COURSE, TYPE H9.CB, AT AN AVERAGE RATE OF 285 LBS PER SQ. YARD. PROP. APPROX. 4½ ASPHALT CONC. INTERMEDIATE COURSE, TYPE 19.08, AT AN AVERAGE RATE OF 256.5 LBS PER SO. YARD PROP. VAR. DEPTH ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 19.0B, AT AN AVERAGE RATE OF 14 185, PER SC. YD. PER I DEPTH, TO BE PLACED IN LAYERS NOT LESS THAN 21/4" IN DEPTH OR GREATER THAN 4" IN DEPTH. PROP. APPROX. 5½ ASPHALT CONC. BASE COURSE, TYPE B25.0B, AT AN AVERAGE RATE OF 627 LBS PER SQ. YARD. PROP. APPROX. 3° ASPHALT CONC.BASE COURSE, TYPE B25.0B, AT AN AVERAGE RATE OF 342 LBS PER SQ. YARD. PROP. VAR. DEPTH ASPHALT CONC. BASE COURSE, TYPE B25.0B, AT AN AVERAGE RATE OF 114 LBS PER SC. VARU PER 1 DEPTH. TO BE PLACED IN LAYERS NOT GREATER THAN 51/2 NDEPTH. OR LESS THAN 3 ND DEPTH. R 2'-6" CONCRETE CURB AND GUTTER. 4'CONCRETE SIDEWALK. EARTH MATERIAL. EXISTING PAVEMENT MATERIAL. MILLING BITUMINOUS PAVEMENT, 1/4" DEPTH. VAR. DEPTH ASPHALT PAVEMENT. (SEE WEDGING DETAIL)

